

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:Dymax OP-18 Temporary Bonding Fluorescing Adhesive, Translucent Gel,
UV Cure - 30ml Syringe**Manufacturer Part Number:**

OP-18-30ML

[Click here for more details on the Dymax OP-18 Temporary Bonding Fluorescing Adhesive, Translucent Gel, UV Cure - 30ml Syringe](#)

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

OP-18

Issuing Date 27-Apr-2023

Revision date 27-Apr-2023

Revision Number 33

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product Name** OP-18**Pure substance/mixture** Mixture**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended use** Adhesives and/or sealants.**Uses advised against** Consumer use.**1.3. Details of the supplier of the safety data sheet****Manufacturer**Dymax Corporation
318 Industrial Lane
Torrington, CT 06790
Tel: 860-482-1010
Fax: 860-496-0608**Manufacturing sites**Dymax Asia Pacific Pte Ltd.
Block 5008 (East Wing)
Ang Mo Kio Ave. 5
#05-3 TECHplace II
Singapore 569874
Tel: +65-6752-2887
Fax: +65-6752-2813**Supplier**Dymax Asia Pacific Pte Ltd.
Block 5008 (East Wing)
Ang Mo Kio Ave. 5
#05-3 TECHplace II
Singapore 569874
Tel: +65-6752-2887
Fax: +65-6752-2813**For further information, please contact****E-mail address** Product_Regulatory_Europe@dymax.com**1.4. Emergency telephone number****Emergency Telephone** Chemtrec @ 001-703-741-5970 (24hrs)

Austria +(43)-13649237	Belgium +(32)-28083237	Bulgaria +(359)-32570104
Croatia +(385)-17776920	Czech Republic +(420)-228880039	Denmark +(45)-69918573
Estonia +(372)-6681294	Finland +(358)-942419014	France +(33)-975181407
Germany 0800-181-7059	Greece +(30)-2111768478	Hungary +(36)-18088425
Ireland +(353)-19014670	Italy 800-789-767	Latvia +(371)-66165504
Lithuania +(370)-52140238	Luxembourg +(352)-20202416	Netherlands +(31)-858880596
Norway +(47)-21930678	Poland +(48)-223988029	Portugal +(351)-308801773
Romania +(40)-37-6300026	Slovakia +(423)-233057972	Slovenia +(386)-18888016
Spain 900-868538	Sweden +(46)-852503403	United Kingdom +(44)-870-8200418
Israel +(972)-37630639	Russia 8-800-100-6346	Saudi Arabia +(966)-8111095861
Switzerland +(41)-435082011	Turkey +(90)-212-7055340	Ukraine +(380)-947101374

SECTION 2: Hazards identification**Contact the professionals at Fiber Optic Center for a quote or to get more details.**23 Centre Street • New Bedford, MA 02740 USA • focenter.com508-992-6464 | (800) 473-4237 • sales@focenter.com

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2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1A - (H317)

2.2. Label elements

Signal word - Danger

Contains N,N-Dimethylacrylamide, Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-, Caprolactone Acrylate, 2-Propenoic acid, 2-hydroxyethyl ester

Hazard statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash face, hands and any exposed skin thoroughly after handling

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.

Product Information

Testing for acute and chronic aquatic effects determined no environmental classification is required. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

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3.2 Mixtures

Chemical name	CAS No	EC No (EU Index No)	REACH registration number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N,N-Dimethylacrylamide	2680-03-7	220-237-5	01-2119971262-39-0007	10-24	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Eye Dam. 1 (H318)
Caprolactone Acrylate	110489-05-9	-	-	3-<5	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	162881-26-7	(015-189-00-5) 423-340-5	-	1-<3	Skin Sens. 1A (H317) Aquatic Chronic 4 (H413)
2-Propenoic acid, 2-hydroxyethyl ester	818-61-1	(607-072-00-8) 212-454-9	01-2119459345-34-0015	<1	Acute Tox. 3 (H311) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)

Chemical name	CAS No	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
2-Propenoic acid, 2-hydroxyethyl ester	818-61-1	Skin Sens. 1 :: C>=0.2%		

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
N,N-Dimethylacrylamide	316				
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	2000	2000			
2-Propenoic acid, 2-hydroxyethyl ester	548	1000			

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures**Contact the professionals at Fiber Optic Center for a quote or to get more details.**23 Centre Street • New Bedford, MA 02740 USA • focenter.com508-992-6464 | (800) 473-4237 • sales@focenter.com

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4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Burning sensation. Itching. Rashes. Hives.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
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5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.

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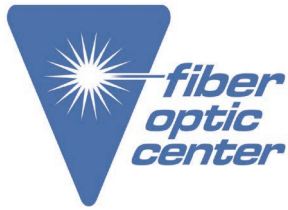
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For emergency responders Use personal protection recommended in Section 8.**6.2. Environmental precautions****Environmental precautions** Prevent further leakage or spillage if safe to do so.**6.3. Methods and material for containment and cleaning up****Methods for containment** Prevent further leakage or spillage if safe to do so.**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.**6.4. Reference to other sections****Reference to other sections** See section 8 for more information. See section 13 for more information.**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Protect from light.**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.**7.2. Conditions for safe storage, including any incompatibilities****Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Keep container tightly closed in a dry and well-ventilated place. Protect from light.**Storage class (TRGS 510)** Storage class 10.**7.3. Specific end use(s)****Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
2-Propenoic acid, 2-hydroxyethyl ester 818-61-1	-	-	TWA: 1 ppm TWA: 5 mg/m ³ H* STEL: 2 ppm STEL: 10 mg/m ³	TWA: 1 ppm TWA: 5 mg/m ³ STEL: 2 ppm STEL: 10 mg/m ³ A*	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary

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2-Propenoic acid, 2-hydroxyethyl ester 818-61-1	-	-	skin sensitizer	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
2-Propenoic acid, 2-hydroxyethyl ester 818-61-1	-	-	-	TWA: 0.5 mg/m ³	Sensitizer * TWA: 1 ppm TWA: 5 mg/m ³ STEL: 2 ppm STEL: 10 mg/m ³
Chemical name	Sweden	Switzerland	United Kingdom		
2-Propenoic acid, 2-hydroxyethyl ester 818-61-1	NGV: 1 ppm NGV: 5 mg/m ³ Väglädande KGV: 2 ppm Väglädande KGV: 10 mg/m ³ * Sensitizer	-	-		

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

No information available

Derived No Effect Level (DNEL) - General Public

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Engineering controls

No information available.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Hand protection

Wear suitable gloves. Nitrile rubber, Butyl rubber.

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Environmental exposure controls

No information available.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Liquid
Appearance	translucent
Color	yellow
Odor	Characteristic.
Odor threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	101 °C	Pensky-Martens Closed Cup (PMCC)
Autoignition temperature	270 °C	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	
Dynamic viscosity	50,000 cP	
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

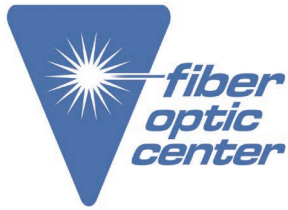
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Possibility of hazardous reactions None under normal processing.**10.4. Conditions to avoid****Conditions to avoid** None known based on information supplied.**10.5. Incompatible materials****Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.**10.6. Hazardous decomposition products****Hazardous decomposition products** None known based on information supplied.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms** Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.**Acute toxicity****Numerical measures of toxicity****The following values are calculated based on chapter 3.1 of the GHS document**

ATEmix (oral)	1,454.30 mg/kg
ATEmix (dermal)	3,899.80 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
N,N-Dimethylacrylamide	= 316 mg/kg (Rat)	907mg/kg (Rabbit)	> 776 ppm (Rat) 1 h
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
2-Propenoic acid, 2-hydroxyethyl ester	= 548 mg/kg (Rat)	> 1000 mg/kg (Rat)	-

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause skin irritation. Classification based on data available for ingredients. Causes skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Causes serious eye damage.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards**11.2.1. Endocrine disrupting properties**

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
N,N-Dimethylacrylamide	-	LC50: >100mg/L 96h (Oncorhynchus mykiss)	-	EC50 > 120 mg/l 48 h (Daphnia magna)
Phosphine oxide, phenylbis(2,4,6-trimethyl benzoyl)-	-	LC50: >90µg/L (96h, Danio rerio)	-	-
2-Propenoic acid, 2-hydroxyethyl ester	-	LC50: =4.8mg/L (96h, Pimephales promelas)	-	EC50: =0.78mg/L (48h, Daphnia magna)

12.2. Persistence and degradability**Persistence and degradability** No information available.**Contact the professionals at Fiber Optic Center for a quote or to get more details.**23 Centre Street • New Bedford, MA 02740 USA • focenter.com508-992-6464 | (800) 473-4237 • sales@focenter.com

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12.3. Bioaccumulative potential**Bioaccumulation****Component Information**

Chemical name	Partition coefficient
N,N-Dimethylacrylamide	-0.3
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	5.8
2-Propenoic acid, 2-hydroxyethyl ester	-0.17

12.4. Mobility in soil**Mobility in soil**

No information available.

12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment**

The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
N,N-Dimethylacrylamide	The substance is not PBT / vPvB
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	The substance is not PBT / vPvB
2-Propenoic acid, 2-hydroxyethyl ester	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties**Endocrine disrupting properties**

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste from residues/unused products**

Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

Contaminated packaging

Do not reuse empty containers.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number Not regulated

14.2 Extended Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number Not regulated

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14.2 Extended Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 Extended Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 Extended Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
2-Propenoic acid, 2-hydroxyethyl ester - 818-61-1	RG 65

Germany**Water hazard class (WGK)** obviously hazardous to water (WGK 2) Classification according to AwSV.**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)- - 162881-26-7	75.	-
2-Propenoic acid, 2-hydroxyethyl ester - 818-61-1	75.	-

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Dymax®

Product Name:Dymax OP-18 Temporary Bonding Fluorescing Adhesive, Translucent Gel,
UV Cure - 30ml Syringe**Manufacturer Part Number:**

OP-18-30ML

▶ Click here for more details on the Dymax OP-18 Temporary Bonding Fluorescing Adhesive, Translucent Gel, UV Cure - 30ml Syringe

OP-18 - OP-18

Revision date 27-Apr-2023

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Listed on NDSL
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AIIC	Complies
NZIoC	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Industrial Chemicals Introduction Scheme
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment**Chemical Safety Report**

No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H413 - May cause long lasting harmful effects to aquatic life

Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Contact the professionals at Fiber Optic Center for a quote or to get more details.**23 Centre Street • New Bedford, MA 02740 USA • focenter.com508-992-6464 | (800) 473-4237 • sales@focenter.com

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TWA Ceiling +	TWA (time-weighted average) Maximum limit value Sensitizers	STEL *	STEL (Short Term Exposure Limit) Skin designation
Classification procedure			
Classification according to Regulation (EC) No. 1272/2008 [CLP]		Method Used	
Acute oral toxicity		Calculation method	
Acute dermal toxicity		Calculation method	
Acute inhalation toxicity - gas		Calculation method	
Acute inhalation toxicity - vapor		Calculation method	
Acute inhalation toxicity - dust/mist		Calculation method	
Skin corrosion/irritation		Calculation method	
Serious eye damage/eye irritation		Calculation method	
Respiratory sensitization		Calculation method	
Skin sensitization		Calculation method	
Mutagenicity		Calculation method	
Carcinogenicity		Calculation method	
Reproductive toxicity		Calculation method	
STOT - single exposure		Calculation method	
STOT - repeated exposure		Calculation method	
Acute aquatic toxicity		On basis of test data	
Chronic aquatic toxicity		On basis of test data	
Aspiration hazard		Calculation method	
Ozone		Calculation method	

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date

27-Apr-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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End of Safety Data Sheet

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